

Amendments to the Description:

Please amend paragraph [0003] with the following amended paragraph:

[0003] An X-ray tube comprises, in a vacuum chamber, a cathode ~~which that~~ emits a beam of electrons to an anode (or target) comprising ~~of~~ a rotating disk coated with a material such as manganese. An electric field is created between the cathode and the anode by applying between those two elements a voltage ~~in~~ on the order of one hundred kilovolts ~~and or~~ more in order to accelerate the electrons emitted by the cathode. The point of impact of the accelerated beam of electrons ~~accelerated~~ on the rotating disk causes the anode to emit ~~emits~~ X-rays.

Please amend paragraph [0004] with the following amended paragraph:

[0004] In order to obtain ~~those~~ the high and very high voltages of one hundred kilovolts ~~and or~~ more from an input voltage, it is desirable to have rectifier circuits connected to transformer windings. The transformer windings are subject to very high voltages, so that it is desirable to insulate winding turns from one another with a sufficient thickness of material which should be a good electric insulator in order to prevent electric failure, while having good thermal conductivity to carry off or dissipate heat. For that purpose, one ordinarily uses paper placed between the layers of turns and a dielectric oil ~~which that~~ fills the whole chamber in which the transformer is immersed. However, this technique does not make it possible to effectively carry off or dissipate the heat due to heating of the windings, ~~which that~~ may be caused by an electric current. Furthermore, in some applications it is required that radiological examination be made, notably, in the case of scanners, more and more rapidly, for example, four times faster than previously, in order to reduce ~~the~~ operating cost, which results in dissipating more heat per unit time.

Please amend paragraph [0005] with the following amended paragraph:

[0005] In the present state of the art, ~~the~~ one solution to that problem is to increase the volume and weight of the transformer.

Please amend paragraph [0006] with the following amended paragraph:

[0006] An embodiment of the The present invention is directed to a high-voltage transformer winding which enables the heat generated by the winding to be carried off or dissipated better without an increase of volume and weight in relation to the windings.

Please amend paragraph [0009] with the following amended paragraph:

[0009] Other characteristics and advantages of ~~this~~ the present invention will appear on reading the following description of a particular embodiment, the description being made in relation to the attached drawings in which:

Please amend paragraph [0012] with the following amended paragraph:

[0012] Figure 3 is a schematic view showing the assembly of three juxtaposed disks with an electric conductor;

Please amend paragraph [0013] with the following amended paragraph:

[0013] Figure 4 is a schematic view of ~~the~~ a mounting of three disks on a mandrel [,] ; and

Please amend paragraph [0014] with the following amended paragraph:

[0014] Figure 5 is a diagram illustrating ~~the~~ a method for placing the electric conductor in ~~the~~ the spirals of the disks of the winding.

Please amend paragraph [0015] with the following amended paragraph:

[0015] In an embodiment of the invention the electric insulating material has a high thermal conductivity in order to carry off or dissipate the heat originating from the electric energy dissipated in the electrical conductors. ~~electric conductor~~, the ~~electric insulating material has a high thermal conductivity~~.

Please amend paragraph [0016] with the following amended paragraph:

[0016] ~~In an~~ An embodiment of the invention [, the] comprises a plurality of juxtaposed plates, each plate bearing a spiral-wound electric conductor, and the spirals of the electric conductor present an identical gyration, but are wound from outside in on one plate and from inside out on the adjacent plate. The spiral winding of the electric conductor is preferably obtained by a spiral-shaped groove or channel ~~which~~ that is traced on at least one side of the plate in order to accommodate the electric conductor. To enable the electric conductor to pass from one plate to the adjacent plate, a first plate presents a notch at the outer point of the spiral, while the adjacent plate (or second plate) presents a notch at the inner point of the spiral, so that the electric conductor passes from the first plate to the adjacent (or second plate) through the outer notch of the first plate and from that adjacent plate to the next plate (or third plate) through the inner notch of the second plate, the third plate presenting an outer notch like the first plate.

Please amend paragraph [0018] with the following amended paragraph:

[0018] The shape of the bottom of the groove is preferably adapted to that of the electric conductor ~~section~~ cross-section, but it can be semicircular or flat. The periphery of the plate can have any shape, but pointed shapes should be avoided.

Please amend paragraph [0021] with the following amended paragraph:

[0021] The That electric insulator of high thermal conductivity placed between the plate can be liquid or solid at temperature of use.

Please amend paragraph [0023] with the following amended paragraph:

[0023] A winding 10a, 10b comprises (Figures 1 and 2) a circular disk or plate 12a or 12b of insulating material, one side 14a or 14b of which presents a spiral groove or channel 16a or 16b, the other side 26a or 26b being flat. An electric conductor 18a or 18a is accommodated in the groove 16a or 16b and emerges from the groove at a first peripheral end 20a or 20b and at a second central end 22a or 22b.

Please amend paragraph [0030] with the following amended paragraph:

[0030] The insulating material of the disk can be of all known types creating good electric insulation and presenting high thermal conductivity. It is preferably of a material described in the published French patent application published under No. 2,784,261 filed by the applicant on October 5, 1998.

Please amend paragraph [0041] with the following amended paragraph:

[0041] An embodiment of the The invention also concerns a method of winding for making a coil by means of disks. The method comprises (Figure 5) calculating the number N of disks which are desirable for making the coil, for example, N = 6. Among those six disks, three, D1, D3 and D5, will have a spiral along disk 12b with an inner notch 66b and three, D2, D4, D6, will have a spiral along disk 12a with an outer notch 62a.